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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/666,097	09/19/2003	Hong Gan	18052	7129	
26794	7590 09/14/2005		EXAM	EXAMINER	
TYCO ELECTRONICS CORPORATION 4550 NEW LINDEN HILL ROAD, SUITE 450			nguyen, khanh v		
	ON, DE 19808	OTTE 430	ART UNIT PAPER NUMBER		
			2817		

DATE MAILED: 09/14/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

			u.			
	Application No.	Applicant(s)				
	10/666,097	GAN ET AL.				
Office Action Summary	Examiner	Art Unit				
	Khanh V. Nguyen	2817				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period w  - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 16(a). In no event, however, may a reply be tim rill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communication 0 (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 11 Ju	<u>ily 2005</u> .	•				
2a)⊠ This action is <b>FINAL</b> . 2b)☐ This	This action is <b>FINAL</b> . 2b) This action is non-final.					
3) Since this application is in condition for allowar	•		is			
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	i3 O.G. 213.				
Disposition of Claims						
4)⊠ Claim(s) <u>1-8</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdraw	vn from consideration.					
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-8</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or	election requirement.					
Application Papers	· · · · · · · · · · · · · · · · · · ·					
9) The specification is objected to by the Examine	r.					
10) The drawing(s) filed on is/are: a) □ acce	epted or b) objected to by the B	Examiner.				
Applicant may not request that any objection to the	drawing(s) be held in abeyance. See	e 37 CFR 1.85(a).				
Replacement drawing sheet(s) including the correcti			(d).			
11) The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:	priority under 35 U.S.C. § 119(a)	)-(d) or (f).				
1. Certified copies of the priority documents	s have been received.		•			
2. Certified copies of the priority documents	s have been received in Application	on No				
3. Copies of the certified copies of the prior	ity documents have been receive	ed in this National Stage				
application from the International Bureau	(PCT Rule 17.2(a)).					
* See the attached detailed Office action for a list of	of the certified copies not receive	:d.				
		·				
Attachment(s)  1) Notice of References Cited (PTO-892)	4) Interview Summary	(PTO 412)				
<ol> <li>Notice of References Cited (PTO-892)</li> <li>Notice of Draftsperson's Patent Drawing Review (PTO-948)</li> </ol>	Paper No(s)/Mail Da	ate				
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	5) Notice of Informal P 6) Other:	atent Application (PTO-152)				

## **DETAILED ACTION**

## Response to Arguments

Applicant's arguments filed July 11, 2005 have been fully considered but they are not persuasive.

Applicant argued that Grondahl (5,936,464) fails to disclose the claimed invention (see applicant's Remarks). However, the Examiner disagrees.

Grondahl (Fig. 1) discloses a power divider (210) for dividing a signal into amplitude (see col. 3, lines 64-67) and phase (see col. 2, lines 53-67) paths; an A/D converter (257) is functional equivalent as claimed "amplitude mapping circuit" since A/D converter (257) also receives amplitude signal via elements (220, 270), which then converts the amplitude signal to digital word (binary control word), see col. 3, lines 35-58; wherein digital word quantized into bits and binary value, accordingly; and a variable gain amplifier (252) including a plurality of transistors (610, 620, 630, 640) which can be read as plurality of amplifiers, see Fig. 6, coupled to the amplitude mapping circuit (257), wherein the binary value is transmitted to at least one of the plurality of amplifiers to specify a gain level of the amplifier via its gate.

Accordingly, claims 1-8 remains rejected, see PRIOR Office Action Rejection mailed May 19, 2005.

#### Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Khanh V. Nguyen whose telephone number is (571) 272-1767. The examiner can normally be reached from 8:00 AM - 3:30 PM EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert Pascal can be reached on (571) 272-1769. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 872-9306 for regular communications and (703) 872-9306 for After Final communications.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

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you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free).

KHANH VAN NGUYEN PRIMARY EXAMINER

Manh Cantquyer

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